Illinois Department of
Natural Resources

One Natural Resources Way Springfield, Illinois 62702-1271
http://dnr.state.il.us

Pat Quinn, Governor
Marc Miller, Director

Office of Water Resources, Michael A. Bilandic Building, 160 N. LaSalle Street, Suite #S-700,
Chicago, IL 60601 Phone: 312/793-3123 Fax: 312/793-5968

PUBLIC NOTICE

Placement of Remedial Fill in a Slip in the Calumet River by Navistar, Inc. in the City of Chicago in Cook County

Navistar, Inc., 303 E. Wacker Drive, Suite 360, Chicago, Illinois 60601 has applied for an Illinois Department of Natural Resources, Office of Water Resources' permit to place remedial fill on the bottom of a slip in the Calumet River. The slip is located at 11103 S. Torrence Avenue, Chicago, Illinois 60617 (river mile 2.8).

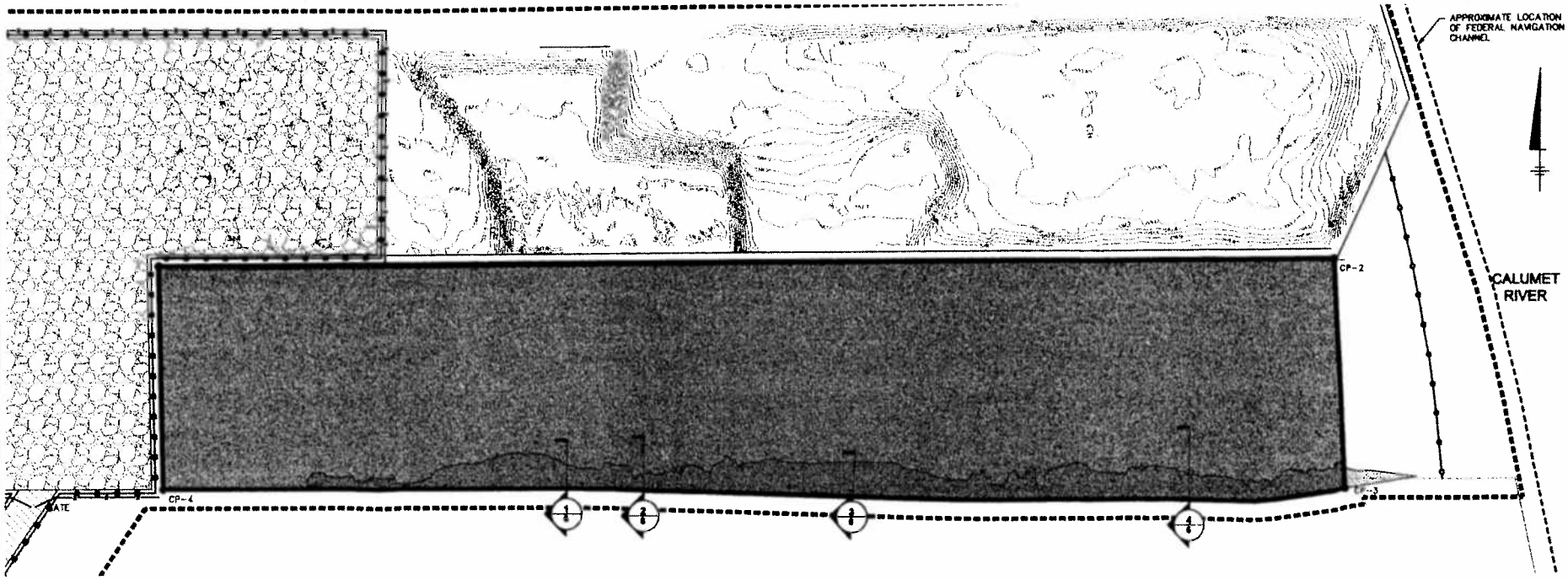
The applicant's drawings show that the entire bottom of the approximately 450 ft. long by 90 ft. wide slip will be capped with remedial fill. The proposed fill will be 18 in. deep and consist of 12 in. of sand with 2% organic compound and 6 in. of stone with a median diameter of 2 in. This will result in a total of 10,000 cubic yards of material being placed (7,000 cubic yards of sand and 3,000 cubic yards of stone). The purpose of the cap is to isolate the environmental sediments that are impacted relative to background levels and are sources of potential ecological risk to the slip. A location map and plans are attached to the back of this notice.

No work is to start on this project unless and until such time that the permit is issued.

Plans for the work may be seen at the Office of Water Resources, Michael A. Bilandic Building, 160 N. LaSalle Street, Suite S-703, Chicago, Illinois 60601. Inquiries and requests to review the plans may be directed to Jim Casey of the Chicago Office at (312) 793-5947 or james.casey@illinois.gov.

You are invited to send written comments regarding the work to the Chicago Office by July 23, 2012.

June 21, 2012



LEGEND:

- REMEDIAL FOOTPRINT
- PROJECT WORK LIMITS
- TOPOGRAPHIC CONTOUR
- APPROXIMATE EXTENT OF SEDIMENT CAP
- AREA TO RECEIVE CLEAN FILL FOR MAXIMUM 2H:1V SLOPE (SEE NOTE 2)
- SILT FENCE
- TEMPORARY SITE SECURITY FENCE
- TURBIDITY CURTAIN
- AREA AVAILABLE FOR TEMPORARY SUPPORT ZONE
- CP-2 CONTROL POINT

NOTE:

1. REFER TO DRAWING 1 FOR ADDITIONAL NOTES, AND DRAWING 2 FOR BASE MAP INFORMATION.
2. THE CONTRACTOR SHALL DOCUMENT THE PROPOSED SOURCE OF THE SAND/STONE/FILL MATERIALS TO BE USED ON-SITE, AND SHALL SUBMIT ALL ANALYTICAL DATA FROM TESTING OF THE SAND/FILL MATERIALS TO BE USED TO THE ENGINEER FOR REVIEW AND APPROVAL A MINIMUM OF TWO WEEKS PRIOR TO INSTALLATION. ANALYTICAL TESTING OF THE PROPOSED SAND/FILL MATERIAL SHALL BE FOR PESTICIDES, POLYCHLORINATED BIPHENYLS, TOTAL PETROLEUM HYDROCARBON, VOLATILE ORGANIC COMPOUNDS, POLYCYCLIC AROMATIC HYDROCARBONS, TOTAL METALS, MERCURY, TOTAL CYANIDE, AND PH. AT A MINIMUM, CONCENTRATIONS MUST BE LESS THAN TIERED APPROACH TO CORRECTIVE ACTION OBJECTIVES (TACO) 35 IAC 742 TIER 1 RESIDENTIAL CRITERIA TO BE APPROVED FOR USE ON-SITE. IN ADDITION, THE CONTRACTOR SHALL SUBMIT GEOTECHNICAL DATA FROM GRAIN SIZE ANALYSIS OF THE PROPOSED SAND/STONE/FILL MATERIALS.
3. THE CONTRACTOR SHALL FILL AS NECESSARY WITH CLEAN MATERIAL TO MAINTAIN A MAXIMUM 2H:1V FINAL CAP SURFACE SLOPE IN THE AREA INDICATED. THE CONTRACTOR WILL ALSO MAINTAIN A MINIMUM 1-FOOT SAND LAYER WITH 2% TOC AND 6-INCH LAYER OF STONE FOR THE FULL EXTENT OF THE CAP AS SHOWN WITHIN THE REMEDIAL FOOTPRINT. THE CONTRACTOR SHALL PLACE ALL FILL MATERIAL REQUIRED PRIOR TO INITIATING PLACEMENT OF THE SEDIMENT CAP MATERIALS. ONE FULL LIFT OF THE CAP MATERIAL SHALL BE PLACED AT THE REQUIRED THICKNESS ACROSS THE ENTIRE AREA TO BE CAPPED PRIOR TO INITIATION OF THE PLACEMENT OF THE SUBSEQUENT LIFT. CAP MATERIAL PLACEMENT MAY BE SUSPENDED, AT THE DIRECTION OF THE ENGINEER, IF TURBIDITY TARGET LEVELS ARE EXCEEDED, AS DETAILED IN THE DESIGN REPORT.
4. THE SAND LAYER FOR THE SEDIMENT CAP SHALL CONSIST OF CLEAN FINE TO COARSE SAND MATERIAL (USCS CLASSIFICATION SW) WITH A MINIMUM TOTAL ORGANIC CARBON CONTENT OF 2% WITH NOT GREATER THAN 10% MATERIAL PASSING THE #200 SIEVE.
5. SAND MATERIAL TO BE USED WHERE EXCESS FILL IS REQUIRED TO ACHIEVE MINIMUM SLOPES, MATERIAL SHALL BE CONSISTENT WITH CAP SAND MATERIAL, HOWEVER WILL NOT BE SUBJECT TO THE TOTAL ORGANIC CARBON REQUIREMENT.
6. THE STONE LAYER FOR THE SEDIMENT CAP SHALL CONSIST OF CLEAN POORLY GRADED ANGULAR STONE WITH A D_{50} OF 2 INCHES, AND A D_{max} AND D_{min} OF 3-INCHES AND 1-INCH, RESPECTIVELY.
7. THE CONTRACTOR SHALL DETERMINE THE APPROPRIATE MEANS AND METHODS BY WHICH TO PLACE MATERIALS AND SPECIFY AS SUCH IN THEIR OPERATIONS PLAN.
8. OUTSIDE OF THE REMEDIAL FOOTPRINT ON THE EAST END OF THE SOUTH SLIP, THE CONTRACTOR SHALL TAPER EACH LAYER OF THE CAP AT NO MORE THAN A 2H:1V SLOPE FROM THE RESPECTIVE 1-FOOT AND 6-INCH FULL THICKNESSES TO INTERSECT WITH EXISTING GRADE. THE CONTRACTOR SHALL FILL AS NECESSARY WITH CLEAN FILL MATERIAL (PRIOR TO PLACING THE CAP MATERIAL) TO ENSURE THIS MAXIMUM 2H:1V SLOPE, SIMILAR TO AS SHOWN FOR THE AREA ALONG THE SOUTH SHORE (SEE DRAWING 6).
9. FILL AND CAP MATERIAL SHALL BE PLACED FROM THE TOE OF SLOPE TO THE TOP OF SLOPE (I.E., SHALL BE PLACED STARTING AT THE LOWEST ELEVATIONS) AND SHALL BE PLACED IN LIFTS NO MORE THAN SIX-INCHES IN THICKNESS. THE CONTRACTOR SHALL NOT PLACE FILL MATERIAL (WHERE EXCESS FILL IS REQUIRED FOR SLOPE STABILITY) THROUGH THE WATER COLUMN FROM THE WATER SURFACE, AND SHALL RELEASE FROM BUCKETS A DISTANCE NO GREATER THAN TWO FEET ABOVE THE SEDIMENT SURFACE. IF THE CONTRACTOR PROPOSES TO PLACE DRY CAP MATERIAL BY MECHANICAL METHODS, THE MATERIAL SHOULD BE PLACED FROM NO GREATER THAN TWO FEET ABOVE THE SEDIMENT/FILL SURFACE.
10. A MINIMUM OF TWO LIFTS OF THE SAND LAYER IS REQUIRED TO MEET THE MINIMUM 1-FOOT DESIGN THICKNESS, AND A MINIMUM OF ONE LIFT OF THE STONE LAYER IS REQUIRED TO MEET THE MINIMUM 6-INCH DESIGN THICKNESS. THE MINIMUM TOLERANCE FOR EACH LAYER OF THE SEDIMENT CAP IS 1-FOOT AND 6-INCHES FOR THE SAND AND STONE LAYERS, RESPECTIVELY. THE MAXIMUM ALLOWABLE LAYER THICKNESS IS 130% OF THE SPECIFIED LAYER THICKNESS AT ANY LOCATION. THE ENGINEER MAY REQUIRE REMOVAL OF EXCESS MATERIAL AT NO ADDITIONAL COST.
11. FOLLOWING PLACEMENT OF THE SAND LAYER OF THE CAP, INTERIM MONITORING WILL BE PERFORMED BY THE ENGINEER TO CONFIRM THAT THE REQUIRED THICKNESS HAS BEEN ACHIEVED. THE CONTRACTOR SHALL NOT INITIATE PLACEMENT OF THE STONE LAYER UNTIL THE ENGINEER HAS PERFORMED THE INTERIM MONITORING AND HAS CONFIRMED THAT THE REQUIRED DESIGN THICKNESS OF 1-FOOT HAS BEEN ACHIEVED FOR THE SAND LAYER. BASED ON THE RESULTS AND REVIEW OF THE INTERIM MONITORING, MODIFICATIONS MAY BE MADE TO THE CAP PLACEMENT METHODS AND/OR ADDITIONAL SAND MAY BE PLACED IN CERTAIN AREAS TO BRING THE THICKNESS OF THE SAND LAYER OF THE CAP UP TO A MINIMUM OF 1-FOOT.
12. FOLLOWING PLACEMENT OF THE STONE LAYER OF THE CAP, MONITORING WILL BE PERFORMED BY THE ENGINEER TO CONFIRM THAT THE REQUIRED THICKNESS HAS BEEN ACHIEVED. BASED ON THE RESULTS AND REVIEW OF THE MONITORING, ADDITIONAL STONE MAY BE PLACED IN CERTAIN AREAS TO BRING THE THICKNESS OF THE STONE LAYER OF THE CAP UP TO A MINIMUM OF 6-INCHES.
11. THE CONTRACTOR SHALL BE REQUIRED TO SUBMIT A POST-CONSTRUCTION BATHYMETRIC SURVEY TO DOCUMENT FINAL SLOPES.

CONTROL POINTS		
ID	NORTHING	EASTING
CP-1	16,331,40.08	1196,128.54
CP-2	16,331,44.78	1197,259.85
CP-3	16,331,85.74	1197,270.13
CP-4	16,331,85.75	1196,132.80

CONTROL POINTS ARE SHOWN IN FEET IN THE ILLINOIS EAST STATE PLANE COORDINATE SYSTEM.

MARK O. GRAVELDING

ARCADIS

ARCADIS U.S., INC.

NAVISTAR, INC. • CHICAGO, ILLINOIS

SOUTH SLIP SEDIMENT CAP DESIGN REPORT

SEDIMENT CAP INSTALLATION PLAN

ARCADIS Project No. C0000041.0031.00008

Date: JUNE 2012

ARCADIS 6723 TOWPATH ROAD PO BOX 66 SYRACUSE, NEW YORK 13214 TEL: 315-446-9120

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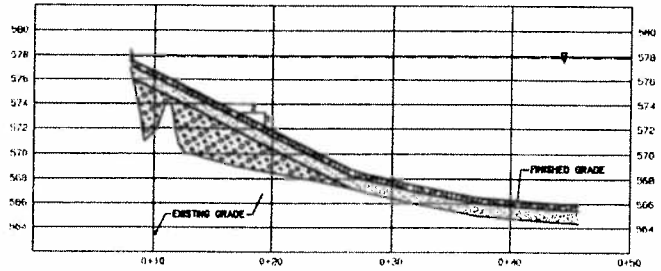
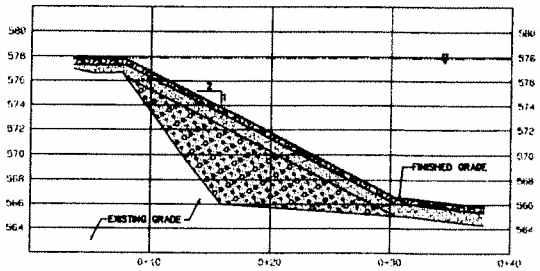


SECTION 1 (TYP.)

0 5' 10'
HORIZONTAL AND VERTICAL SCALE



SECTION 3 (TYP.)

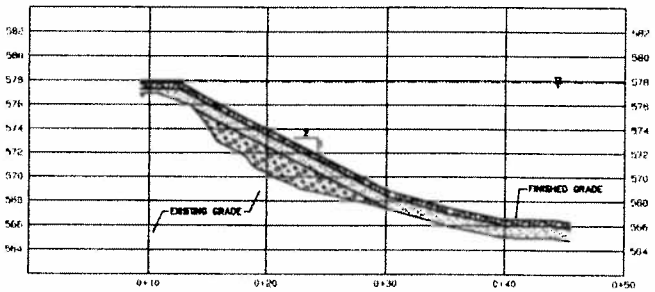
0 5' 10'
HORIZONTAL AND VERTICAL SCALE

LEGEND:

- STONE LAYER (8-INCH MIN.)
- SAND LAYER WITH 2% TOC (1-FOOT MIN.)
- CLEAN SAND FILL
- WATER SURFACE ELEVATION (MARCH 2011)

NOTES:

1. THE CROSS-SECTIONS DISPLAYED ARE FOR CONCEPTUAL VISUALIZATION PURPOSES ONLY. IT IS ANTICIPATED THAT SOME LOCALIZED GRADING MAY BE REQUIRED TO CREATE A SUITABLE SURFACE FOR CAPPING.
2. THE POOL ELEVATION AT THE SOUTH SLIP IS DETERMINED TO BE ELEVATION 577.9 FEET ABOVE SEA LEVEL (ASL) (MARCH 2011). THE ORDINARY HIGH WATER (OHW) AND ORDINARY LOW WATER (OLW) ELEVATIONS HAVE NOT BEEN DETERMINED. PER US ARMY CORPS OF ENGINEERS, THE MAXIMUM POOL ELEVATION FLUCTUATION IS DETERMINED TO BE BETWEEN ELEVATION 577 AND 578 FEET ASL (APPROXIMATELY 1.0' ABOVE AND BELOW ITS USUAL ELEVATION) (USACE 2012).
3. THE CONTRACTOR SHALL FILL AS NECESSARY WITH CLEAN SAND MATERIAL TO MAINTAIN A MAXIMUM 2H:1V SLOPE AS SHOWN.
4. THE SEDIMENT CAP SHALL BE PLACED SUCH THAT IT IS TERMINATED AT OR BEFORE A MAXIMUM ELEVATION OF 577.8 FEET ABOVE SEA LEVEL (I.E., APPROXIMATELY 0.1 FEET BELOW THE NORMAL POOL ELEVATION OF 577.9 FEET). THE SAND LAYER OF THE CAP SHALL BE PLACED SUCH THAT THE TOP ELEVATION OF THE LAYER DOES NOT EXCEED 577.3 FEET, AND WILL BE TAPERED AS NECESSARY TO COVER THE FULL HORIZONTAL EXTENT OF THE AREA TO BE CAPPED. THE STONE LAYER OF THE CAP SHALL BE PLACED SUCH THAT THE TOP ELEVATION OF THE LAYER DOES NOT EXCEED 577.8 FEET ABOVE SEA LEVEL, AND WILL BE TAPERED AS NECESSARY TO COVER THE FULL HORIZONTAL EXTENT OF THE AREA TO BE CAPPED.



SECTION 2 (TYP.)

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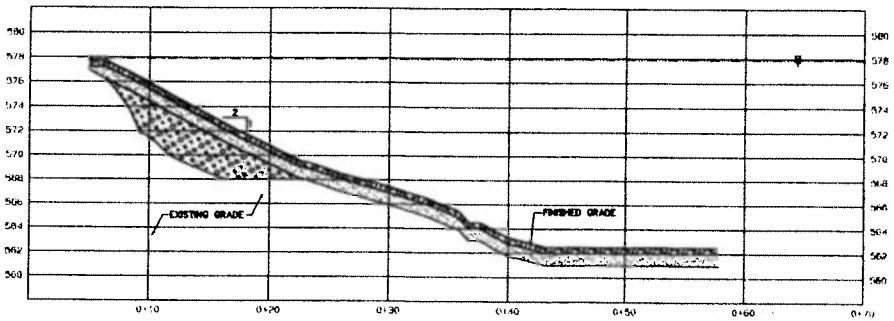
HORIZONTAL AND VERTICAL SCALE



SECTION 4 (TYP.)

0 5' 10'
HORIZONTAL AND VERTICAL SCALE

SCALE(S) AS INDICATED

No.	Date	Revisions	By	Chk

Professional Engineer's Name: MARK O. GRAVELDING
Professional Engineer's No.
Registration: ILLINOIS
Date: 06/01/12
Date Signed
Project No.: 0005
Designed by: LP, AC
Drawn by: MES
Checked by: 0005

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ARCADIS U.S., INC.

MANITEX, INC. • CHICAGO, ILLINOIS
SOUTH SLIP SEDIMENT CAP DESIGN REPORT

SOUTH SLOPE TYPICAL SECTIONS

ARCADIS Project No. C000084.0031.00006
Date: JUNE 2012
ARCADIS
6723 TOWPATH ROAD
PO BOX 66
SYRACUSE, NEW YORK 13214
TEL 315.446.9120

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CITY: SYRACUSE, NY DIVISION/GROUP: BWCAD DB: KJOANS LD: PIC: MJGRAVELDING PM: B.VANDERLAAN TM: LPATHAM LYR: OFF=*;REF
O:\SYRACUSE\C000084.0031\DRAWINGS\CONSTRUCTION\C000084.0031-CONSTRUCTION-SHEET.dwg LAYOUT: 6 SAVED: 6/6/2012 2:31 PM ACADVER: 18.1S (LMS TECH) PAGESETUP: ---- PLOTSTYLETABLE: FLTCONT.CTB PLOTTED: 6/1/2012 10:29 AM BY: SMITHHALL, NANCY
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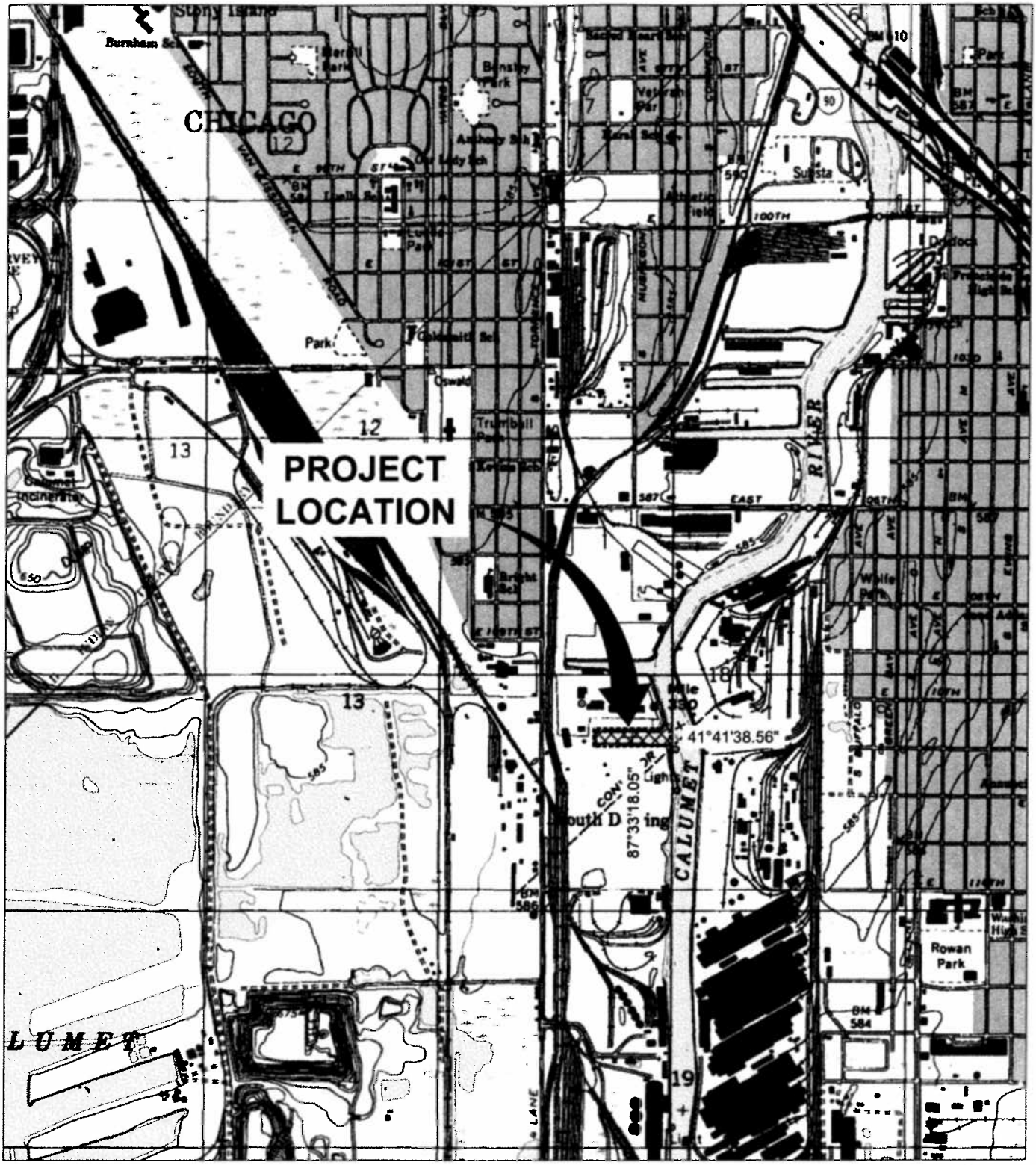

REFERENCE: BASE MAP USGS 7.5. MIN. TOPO. QUAD., LAKE CALUMET, IL-IN., 1997.

0 2000' 4000'

Approximate Scale: 1 in. = 2000 ft.

FORMER WISCONSIN STEEL WORKS
CHICAGO, IL
SOUTH SLIP REMEDIAL ACTION

SITE LOCATION MAP

ARCADIS

FIGURE
1-1

CITY: SYRACUSE, NY DIV/GROUP: ENVCAD DB: KLS SJB LD: GMS PIC:(Opt) PM:(Reqd) TM:(Opt) LYR:(Opt)ON=*;OFF=*REF*;FRZ=*OLD*
G:\ENVCAD\SYRACUSE\ACT\CI\00664\0032\00003\DWG\00664X02.dwg LAYOUT: 1-1 SAVED: 10/10/2011 2:26 PM ACADVER: 18.1S (LMS TECH) PAGESETUP: C-PA-PDF-CONV PLOTSTYLETABLE: PLTFULL.CTB PLOTTED: 10/10/2011 3:00 PM BY: STOWELL, GARY
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